RAW SEQUENCE LISTING DATE: 03/05/2002
PATENT APPLICATION: US/09/901,484A TIME: 10:08:34

Input Set : D:\GEN-T111XC3D2.ST25.txt
Output Set: N:\CRF3\03052002\I901484A.raw

P.5

3 <110> APPLICANT: Cohen, Daniel
4 Blumenfeld, Marta
5 Chumakov, Ilya
6 Bougueleret, Lydie
8 <120> TITLE OF INVENTION: Prostate Cancer Gene
10 <130> FILE REFERENCE: GEN-T111XC3D2
12 <140> CURRENT APPLICATION NUMBER: US 09/901,484A
13 <141> CURRENT FILING DATE: 2001-07-09
15 <150> PRIOR APPLICATION NUMBER: US 08/996,306
16 <151> PRIOR FILING DATE: 1997-12-22
18 <150> PRIOR APPLICATION NUMBER: US 60/099,658
19 <151> PRIOR FILING DATE: 1998-09-09
21 <150> PRIOR APPLICATION NUMBER: US 09/218,207
22 <151> PRIOR FILING DATE: 1998-12-22
24 <150> PRIOR APPLICATION NUMBER: US 09/338,907
25 <151> PRIOR FILING DATE: 1999-06-23
27 <150> PRIOR APPLICATION NUMBER: US 09/853,526
28 <151> PRIOR FILING DATE: 2001-05-11
30 <160> NUMBER OF SEQ ID NOS: 578
32 <170> SOFTWARE: PatentIn version 3.1
34 <210> SEQ ID NO: 1
35 <211> LENGTH: 56516
36 <212> TYPE: DNA
37 <213> ORGANISM: Homo sapiens
39 <220> FEATURE:
40 <221> NAME/KEY: promoter
41 <222> LOCATION: (1629)..(1870)
43 <223> OTHER INFORMATION: identification method Proscan
45 <220> FEATURE:
46 <221> NAME/KEY: misc_feature
47 <222> LOCATION: (1998)..(2000)
48 <223> OTHER INFORMATION: potential start codon
51 <220> FEATURE:
52 <221> NAME/KEY: misc_feature
53 <222> LOCATION: (2001)..(2216)
54 <223> OTHER INFORMATION: exon 1
57 <220> FEATURE:
58 <221> NAME/KEY: [illegible]

[illegible]
[illegible] <222> LOCATION: (11894)..(14332)

RAW SEQUENCE LISTING DATE: 03/05/2002
PATENT APPLICATION: US/09/901,484A TIME: 10:08:34

Input Set : D:\GEN-T111XC3D2.ST25.txt
Output Set: N:\CRF3\03052002\I901484A.raw

66 <223> OTHER INFORMATION: Tyr Phos
69 <220> FEATURE:
70 <221> NAME/KEY: primer_bind
71 <222> LOCATION: (11930)..(11947)
72 <223> OTHER INFORMATION: upstream amplification primer 4-77 SEQ ID 42
75 <220> FEATURE:
76 <221> NAME/KEY: allele
77 <222> LOCATION: (12057)..(12103)
78 <223> OTHER INFORMATION: polymorphic fragment 4-77 SEQ ID 24
81 <220> FEATURE:
82 <221> NAME/KEY: primer_bind
83 <222> LOCATION: (12339)..(12358)
84 <223> OTHER INFORMATION: downstream amplification primer 4-77 SEQ ID 51, complement
87 <220> FEATURE:
88 <221> NAME/KEY: primer_bind
89 <222> LOCATION: (13547)..(13564)
90 <223> OTHER INFORMATION: upstream amplification primer 4-73 SEQ ID 64
93 <220> FEATURE:
94 <221> NAME/KEY: allele
95 <222> LOCATION: (13657)..(13703)
96 <223> OTHER INFORMATION: polymorphic fragment 4-73 SEQ ID 58
99 <220> FEATURE:
100 <221> NAME/KEY: primer_bind
101 <222> LOCATION: (13962)..(13981)
102 <223> OTHER INFORMATION: downstream amplification primer 4-73 SEQ ID 67, complement
105 <220> FEATURE:
106 <221> NAME/KEY: misc_feature
107 <222> LOCATION: (17997)..(18003)
108 <223> OTHER INFORMATION: n = a, c, g, or t.
111 <220> FEATURE:
112 <221> NAME/KEY: misc_feature
113 <222> LOCATION: (18196)..(18265)
114 <223> OTHER INFORMATION: exon 2
117 <220> FEATURE:
118 <221> NAME/KEY: misc_feature
119 <222> LOCATION: (19357)..(19357)
120 <223> OTHER INFORMATION: n = a, c, g, or t.
123 <220> FEATURE:
124 <221> NAME/KEY: misc_feature
125 <222> LOCATION: (23717)..(23832)
126 <223> OTHER INFORMATION: exon 3
129 <220> FEATURE:
130 <221> NAME/KEY: misc_feature
131 <222> LOCATION: (25571)..(25660)
132 <223> OTHER INFORMATION: exon 4
135 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 03/05/2002
PATENT APPLICATION: US/09/901,484A TIME: 10:08:34

Input Set : D:\GEN-T111XC3D2.ST25.txt
Output Set: N:\CRF3\03052002\I901484A.raw

141 <220> FEATURE:
142 <221> NAME/KEY: allele
143 <222> LOCATION: (34469)..(34515)
144 <223> OTHER INFORMATION: polymorphic fragment 99-217 SEQ ID 25
147 <220> FEATURE:
148 <221> NAME/KEY: primer_bind
149 <222> LOCATION: (34625)..(34645)
150 <223> OTHER INFORMATION: downstream amplification primer 99-217 SEQ ID 52, complement
153 <220> FEATURE:
154 <221> NAME/KEY: misc_feature
155 <222> LOCATION: (34669)..(34759)
156 <223> OTHER INFORMATION: exon 5
159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature
161 <222> LOCATION: (39083)..(39093)
162 <223> OTHER INFORMATION: n = a, c, g, or t.
165 <220> FEATURE:
166 <221> NAME/KEY: misc_feature
167 <222> LOCATION: (40688)..(40846)
168 <223> OTHER INFORMATION: exon 6
171 <220> FEATURE:
172 <221> NAME/KEY: misc_feature
173 <222> LOCATION: (48070)..(48193)
174 <223> OTHER INFORMATION: exon 7
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (50182)..(54523)
180 <223> OTHER INFORMATION: exon 8
183 <220> FEATURE:
184 <221> NAME/KEY: primer_bind
185 <222> LOCATION: (51149)..(51168)
186 <223> OTHER INFORMATION: upstream amplification primer 4-65 SEQ ID 65
189 <220> FEATURE:
190 <221> NAME/KEY: allele
191 <222> LOCATION: (51445)..(51494)
192 <223> OTHER INFORMATION: polymorphic fragment 4-65 SEQ ID 59
195 <220> FEATURE:
196 <221> NAME/KEY: primer_bind
197 <222> LOCATION: (51482)..(51499)
198 <223> OTHER INFORMATION: downstream amplification primer 4-65 SEQ ID 68, complement
201 <220> FEATURE:
202 <221> NAME/KEY: primer_bind
203 <222> LOCATION: (51596)..(51613)
204 <223> OTHER INFORMATION: upstream amplification primer 4-67 SEQ ID 44
207 <220> FEATURE:
208 <221> NAME/KEY: allele

RAW SEQUENCE LISTING DATE: 03/05/2002
PATENT APPLICATION: US/09/901,484A TIME: 10:08:34

Input Set : D:\GEN-T111XC3D2.ST25.txt
Output Set: N:\CRF3\03052002\I901484A.raw

214 <221> NAME/KEY: primer_bind
215 <222> LOCATION: (51996)..(52015)
216 <223> OTHER INFORMATION: downstream amplification primer 4-67 SEQ ID 53, complement
219 <220> FEATURE:
220 <221> NAME/KEY: polyA_signal
221 <222> LOCATION: (54445)..(54450)
222 <223> OTHER INFORMATION: AATAAA
225 <400> SEQUENCE: 1
226 gtggatctgt gactgttcgc aggaagagag gagcgggagc aggacagaca ataactgata 60
228 gtcaggagct gggtttggag ataaagaggg aacaagagaa agttaagttc tgtgttttca 120
230 tggcaaacat tgcacaaaag tttacaactt cgtgactaac agtaatctgg ggtgattcac 180
232 aacaaattta cacataaaca catatttact gactttatac acagcaatcc taacgtgaac 240
234 acagaacctg ctttatcttt tcgcacactg ttctagtgta gagatgtctg gtctcagtta 300
236 aagaaagcat aaggagcatt agttgtgcac actgtccaca ccegtgactt ttttccacca 360
238 gtactaaacc tagtgcttct tacagtacag ggcaatgaca gccacagaaa gagagaagct 420
240 cctttttactg tgtaatgctt cctgctggcc ttcaaatact tgttacttga gagatctcca 480
242 ttcacctggc tttgtcccca aaggtcatca tctaccaatg atgttgttat ttgatgttaa 540
244 tcatgtataa agaaagtagc taccatcctg gccctgatta gaacttccca ctgaaatacc 600
246 gtcctgccta aaggtagcac aggtttccat tatggtggtg gtggggaggg ggcgggaata 660
248 tatatatata tatatatata tatatatatg gtaaagcatt cggcattctt ttaaagtaca 720
250 actatccttg aaaagggtta catattaaac catttttacc acagccaaag gggaggagaa 780
252 agatccaaaa gtcctgtgga tctgctttaa catcaataaa acagttatcc acccttcgta 840
254 gcttttagtg aaggctacaa aagtatgctt tttatggatt acacatgtgc acgcaactac 900
256 tttaattact acagaaaaaa acgaggctcc ttattaaaaa aaaatcagaa acaagtccaa 960
258 cagactctga ggaaatgaag caagagtgaa ttctgaaaag gtctaataaa cagtatggaa 1020
260 atatccttgt gggattgttc ttcagctatg cataaacatg taattatcat cattactgtg 1080
262 atggggaaaa acacggaccc taattctgaa acacctggt agcgagagac gggcaggagg 1140
264 ggctgctgcg cactcagagc ggaggctgag gaggcggcgt cccttgcaa aggactggca 1200
266 gtgagcagat ggggacactc gagctgcccc gcgacctggg ccgagctgcc tacaacctgg 1260
268 gcccaggtgc ctgcaagaat tagacctccg ataacgttaa cacccacttt ctcactgctc 1320
270 taattgtgtg catcccggcg cccaggggct tgtgagcagc aggtgcgcgt tccaggcagc 1380
272 tccagcgacc cttaaacctg accgcgcgca cgtccggccc gagggagcag aacaagaggc 1440
274 acccggaccc tcctccggcc agcacccacc ttcacccagt tccgtcagtc gccaccacct 1500
276 cccttcccgc gtccgcagcc ggcccagctg gggagcatgc gcagtggccg gagccgggtt 1560
278 gcccgcgcca cagcaggtag ctgtactgca actgtcggcc caaaccaacc aatcaagaga 1620
280 cgtgttattg ccgccgaggt ggaactatgg caacgggcga ccaatcagaa gggcgcttgt 1680
282 tgccgcggag cccctgccc cggcaggggg atgtggcgat gggtgagggt catggggtgt 1740
284 gagcatccct gagccatcga tccgggaggg ccgcgggttc cctgctttg ccgccgggag 1800
286 cggcgcacgc agcccgcac tcgctaccc ggcccgggc ggcgggcggg cccatgcggc 1860
288 tgggggcgga ggctgggagc gggtggcggg cgcggcggcc cgggcccggg cggtgattgg 1920
290 ccgcctgctg gccgcgactg aggcccggga ggcgggcggg gagccgcagg cggagctgct 1980
292 gccgccgagc tgagaagatg ctgctgtccc tggtgctcca cacgtactcc atgcgctacc 2040
294 tgctgcccag cgtcgtgctc ctgggcacgg cgcccacctа cgtgttggcc tgggggctct 2100
296 ggcggctgct ctccgctttc ctgcccgccc gcttctacca agcgctggac gacccgctgt 2160
298 actgcgtcta ccagagcatg gtgctcttct tcttcgagaa ttacatcggg gtccaggtga 2220
300 gccgcctccc gctcccgggt ctcggcgtcc accccgagct ccgggggcac ggacctctcc 2280

RAW SEQUENCE LISTING DATE: 03/05/2002
PATENT APPLICATION: US/09/901,484A TIME: 10:08:34

Input Set : D:\GEN-T111XC3D2.ST25.txt
Output Set: N:\CRF3\03052002\I901484A.raw

```
308 cctctgcctg ggtctgatgc tgcttagcaa agtgggtgca gatgcacgtt ttaaataata  2520
310 gggcacgcgt ttagcagttt ctggcctttg gtccaaagag gtggtcatgt tggaacagat  2580
312 cggagacgtc tacactccga agtgcgcttt tacagtgacc tcttgaaaca gaagtacaat  2640
314 tcggtcttgt gttctttccc ctggacaagt gaaagctggg cgaagaaatg aatacatttg  2700
316 ttaaccgtag aagcctaact agatacaatt cttgccaact ttaactgggc ttgaatgtgt  2760
318 gggtgatctg ttgtctgatt actttctttc tgttactgtt tctctgtaga gattggattc  2820
320 gtagattaaa cttgagaaac aaaccataaa agtggaaggc cctctttaac agtaggtatt  2880
322 tgaagtgtta taaaaaaaaa aaaggtgaat ttttctttta tttctcagtt tgaaagaaca  2940
324 gctttattct tggttattcc taatgtccac ctagtcctct tttacttttc ttggtagggt  3000
326 tagggtggca tggggaaatg ggacggtatc attttgtctt tttaactttt ttttttccca  3060
328 cctacagcag ctgtttttac cctgtggtca gtcaggtact atatttagtt tgcagttgca  3120
330 ctgctgatcg acccttgatg gcccccagttg gaagttgttt ggggggaagg aactaggaga  3180
332 ggccagggcc tccatttaaa ccagtgtctg taagtgtctc cttggaagga aaaaaagata  3240
334 ctgttccagg tcatggtttc ctggtagttg acgtttaaaa tgggcctcat ttaaaaattt  3300
336 caataattca ggctaatttt ttccctttat atggtaactc caccaagttt gtctaaatgt  3360
338 atgattttta tcatgattaa gtttttactt ccacatcatg tgacaactgg cctgggatgg  3420
340 gatataagct cagaacacaa agtcattcac ctgttaaaaa aataattcta tctgtggcgg  3480
342 gttatgttat ttttgttcaa agaggacaca atatgatgca gaatacacca ttgaaggatt  3540
344 ttttggtttg gcaagttctt attttttaa atggctgtaa aacctagcag tgtttctgaa  3600
346 attgcatacc ttacctgatg ttcagagatc cgatttactt cttgatttcc cagcaagtga  3660
348 ttttgaaaac atttaatcta atcattcccc ccaccgtctg ttcaaatcaa aggaagtggc  3720
350 atccagcact aatttttcatg catttatgaa aggatgcctg aggaccctta agtataattc  3780
352 aaaatttttgt ttaatgtgtg ttccttgatg aagttcttta ggagtcgtag aacgaactga  3840
354 ttgcccactg atcatcaaat gcaagttatg aacatttaat aaaaatttaa aaccaagagt  3900
356 ttcttgttcc tgcatttttta tttttattgt atggagggga caaataatta ttttctgttt  3960
358 agtaacagag cagggtattt tgaatttatt agggtctttt tctgcagtct gggtttcctg  4020
360 tgtacacaaa gctacctttc aatatttttt attgtttctg ttaagattaa atcaatagag  4080
362 gaataaatag ctatcttcaa acataagacc caaaggaaaa agatttatag tgatgttctg  4140
364 tcaccttatt ttttacctgt gactttgtac cattaacttt gtcactgaga tgttttgatt  4200
366 aaaatttttа gcttgctttt cttgttttgt taggacactc ttttttttctt gaattgtttt  4260
368 tatcagcttt cgtttgcaag gctagtgatg attctcttgt tctgtataaa gtattgttga  4320
370 ctcatttctg aagggagttt tagtaattta agaggttata agtttttaaa taaaaggttt  4380
372 attaatttat atatattaaa gaggcatttt aaaataaaat ttttttttaaa tgacattttt  4440
374 acacctttca actctaggtt taaaaaataa gtggttcaca gtagttcttg cagaagaata  4500
376 ttttcttttа catagaattt ttaagctgaa gagaagtagt agtaggtcca tgagatttat  456
378 gatctgtgct tggcaggtaa acctgcttcc aacaaattta gttggatttt tcttggattc  462
380 tgggtaaata cctttttctt ccccagtttc actactttat tttcatatgt atctctgaga  468
382 tagagaaata tttcagtcag tgctgctaaa attgttcctt ataactcgtt tatcctttta  474
384 ggtcctttcca gaatctctca ttggtactga aactcaaatg ggtacttttct tcaccattta  4800
386 tttctttaga ataagtaata agaatttttat aagcttttttt atatttcacg taatttgaga  486
388 ctattgaaaa tccagttaag tctctctact gtgttgagag gcattgattc aagtacctgt  4920
390 gttactttcc tgtgctgcca aaacagatca cctcaaacta agcggcttaa aataatagaa  4980
392 cttaagttct cgtgattctg gaggccagca ctttgaaatc aaggtgtagg ctcaatttta  5040
394 ctcccctctgg aggccctagg gggaatctgt tcttgtgggt ttcaacttct ggtgactggt  510
396 ggcattcctt ggcttggggc ccccatcactt caacctctgc cttacagtcc ttgctgccac  516
398 ctcttctgtc tcacatctca ctctcccttt ctcttagaag gatgcttgtc attgggttta  5220
```

file: C:\Crf3 Outhold Vsr1901484A.htm 3/5/02

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/901,484A

DATE: 03/05/2002
TIME: 10:08:35

Input Set : D:\GEN-T111XC3D2.ST25.txt
Output Set: N:\CRF3\03052002\I901484A.raw

L:824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:870 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:3050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:3353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:4381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:4637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:4845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:4847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:4887 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:4993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:5021 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:5023 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:5025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:5029 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:5087 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:5107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:5109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:5137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:5173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:5243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:5275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:5301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:13038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:182
L:13086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:182
L:13297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:13327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:13369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:13371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:13485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:13565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:13579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:13585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:13861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:13863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:13867 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:13871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:14541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183